

REMARKS

Claims 1-5 as originally filed in the parent application have been cancelled without prejudice. New claims 6-13 are pending in this application.

Independent claim 6, claims 7 and 8 dependent therefrom, and independent claim 9, and claims 10-13, dependent therefrom, are directed to a medium temperature refrigerated merchandiser system. As noted in the specification at page 2, lines 21-25, in a medium temperature merchandiser, the product in the display case is maintained at a temperature in the range of 32 to 41 degrees F, that is above the freezing point. Thus, the circulating cooling air will have moisture entrained therein. In the prior art, with evaporators comprising fin and tube heat exchangers, It has been customary to provide a relatively low fin density, typically in the range of 2 to 4 fins per inch, in view of the moisture bearing air. In operation, moisture in the circulating air will tend to deposit of the cold surfaces of the fin and tube heat exchanger as frost. In the past, it has been felt necessary to use only low fin density, and therefore low efficiency heat exchangers, in such medium temperature merchandiser applications in order to delay excessive frost build-up between and bridging fins of the heat exchanger.

Applicants have found that, contrary to the teachings of the prior art, that a high efficiency evaporator comprising a relatively high pressure drop fin and tube heat exchanger may be used in a medium temperature refrigerated merchandiser without excessive frost formation deteriorating evaporator performance. The high efficiency and high pressure drop are provided by increasing the fin density of the heat exchanger to at least 6 fins per inch, and preferably to 6 to 15 fins per inch, as compared to the low fin density (2 to 4 fins per inch) fin and tube heat exchangers of conventional evaporators.

CONCLUSION

Applicants submit the pending claims of the above-captioned application are in allowable form and are patentable over the prior art of record in the parent application. Accordingly, Applicants respectfully request that upon consideration of this continuation application, the Examiner pass claims 6 through 13 to allowance.

Applicants believe that no fee is due on account of the filing of this Preliminary Amendment. Should this belief be in error, Applicants hereby authorize the Office to charge any necessary fee or surcharge with respect to this paper to Deposit Account 03-0835 of the Applicants' assignee, Carrier Corporation.

Respectfully submitted,



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